Laboratory Reference

(LR)

Addendum to User Manual

Version 5.2 Patch 1051
August 2022
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1.0 Introduction

This document lists various additions/changes to the RPMS Lab package that were brought about by IHS Lab Patch LR*5.2*1051.

This guide provides IHS Laboratorians with descriptions of the changes and/or enhancements and other information.
2.0 **IHS Lab Version & Patch Report**

The Lab Version & Patch Report Option was added to the BLR IHS Lab Main Support Menu (BLRMENU). The report allows the Laboratorian to display the site's Lab Version number and latest patch.

2.1 **LVP IHS Lab Version & Patch Report**

The LVP option is available on the BLRMENU.

```
<table>
<thead>
<tr>
<th>LR</th>
<th>Laboratory DHCP Menu ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHS</td>
<td>Lab Main Support Menu</td>
</tr>
<tr>
<td>LS</td>
<td>Link Transaction Processor Status</td>
</tr>
<tr>
<td>7421</td>
<td>Will restart the 7421 label routine if turned off.</td>
</tr>
<tr>
<td>INQ</td>
<td>Inquire into the IHS LAB Transaction Log</td>
</tr>
<tr>
<td>FLD</td>
<td>Search Transactions for PCC LINK DISABLE Error</td>
</tr>
<tr>
<td>RSN</td>
<td>Requeue by Sequence Number</td>
</tr>
<tr>
<td>RST</td>
<td>Requeue Transaction by Sort Template</td>
</tr>
<tr>
<td>CPT</td>
<td>Enter/edit IHS Lab CPT File</td>
</tr>
<tr>
<td>FAL</td>
<td>Find ALL PCC Link Errors from Lab</td>
</tr>
<tr>
<td>STP</td>
<td>Stop/restart Lab to PCC Transaction Processor</td>
</tr>
<tr>
<td>MSTR</td>
<td>Enter/edit BLR MASTER CONTROL FILE</td>
</tr>
<tr>
<td>POV</td>
<td>Purpose of Visit Compliance Report</td>
</tr>
<tr>
<td>6249</td>
<td>Display File 62.49 HL7 Segments</td>
</tr>
<tr>
<td>BZY</td>
<td>IHS Taskman Busy Device Rpt</td>
</tr>
<tr>
<td>CCCD</td>
<td>Create Creatinine Clearance Delta Check</td>
</tr>
<tr>
<td>CDVC</td>
<td>Edit BLR COLL DT PCC VISIT CREATION Parameter</td>
</tr>
<tr>
<td>CGFR</td>
<td>Create CKD-EPI Equation Delta Check</td>
</tr>
<tr>
<td>CLR</td>
<td>Clear BLR errors from error log</td>
</tr>
<tr>
<td>CUM</td>
<td>IHS CUMULATIVE MENU ...</td>
</tr>
<tr>
<td>DADD</td>
<td>Add Completed Date to Accession Tests</td>
</tr>
<tr>
<td>EAPE</td>
<td>Edit BLR EMERGENCY ALERT Parameter</td>
</tr>
<tr>
<td>EDCC</td>
<td>BLR CC DATA Parameter Edit</td>
</tr>
<tr>
<td>EMGP</td>
<td>Edit LAB HIGH URGENCY NOTIFICATION Mail Group</td>
</tr>
<tr>
<td>ERRT</td>
<td>Error Trap Reporting</td>
</tr>
<tr>
<td>ETP</td>
<td>LA7 Message Queue Error Messages to Purgeable</td>
</tr>
<tr>
<td>IHSM</td>
<td>IHS Lab Microbiology Report</td>
</tr>
<tr>
<td>ILUM</td>
<td>IHS LOINC/UCUM MENU ...</td>
</tr>
<tr>
<td>LABT</td>
<td>Determine if Required RPMS Lab Options Tasked</td>
</tr>
<tr>
<td>LOI</td>
<td>IHS Lab Package LOINC Percentage Report</td>
</tr>
<tr>
<td>LRAS</td>
<td>Accession IHS Lab Microbiology Report</td>
</tr>
<tr>
<td>LROS</td>
<td>Order/test status by Order Number</td>
</tr>
<tr>
<td>LTRR</td>
<td>Laboratory Test (#60) File's Reference Ranges</td>
</tr>
<tr>
<td>LVP</td>
<td>IHS Lab Version &amp; Patch Report</td>
</tr>
<tr>
<td>MACC</td>
<td>Mark Multiple Accessions as Not Performed</td>
</tr>
<tr>
<td>MILO</td>
<td>Micro Interim Report by Location</td>
</tr>
<tr>
<td>MMR</td>
<td>Lab Description Abbreviation Report</td>
</tr>
<tr>
<td>NLO</td>
<td>Lab Tests Without LOINC Entries Report</td>
</tr>
<tr>
<td>ORDO</td>
<td>'Open Lab Orders' Reports ...</td>
</tr>
<tr>
<td>ORPH</td>
<td>Remove Orphans from # 68</td>
</tr>
<tr>
<td>ORPR</td>
<td>BROWSER REPORT ON ORPHANS FROM # 68</td>
</tr>
<tr>
<td>PAMG</td>
<td>Edit IHS Lab Parameters and/or Mail Groups ...</td>
</tr>
<tr>
<td>PDIC</td>
<td>Patient Reminder Document</td>
</tr>
<tr>
<td>FOCA</td>
<td>Edit BLR AGE DETAIL Parameter</td>
</tr>
<tr>
<td>PURA</td>
<td>Purge VA Alerts</td>
</tr>
</tbody>
</table>
```
Press 'RETURN' to continue, '^' to stop:
RBE    Clear ALL BLR Errors from Error Log
REFL   Reference Lab Main Menu ...
REPL   Replace Lab Order/Test Status ...
SF60   IHS Search File 60
SHDR   State Health Dept Report
TCCR   Test Creatinine Clearance Logic
TGFR   Test CKD-EPI Equation Logic
Count Accessioned Tests Using Lab Data File ...
IHS Lab Ask-At-Order ...

Figure 2-1: Full display of BLR Menu and LVP Option

2.2 IHS Lab Version & Patch Report for LR*5.2*1051

When the LVP option is selected the report will look similar to the following:

<table>
<thead>
<tr>
<th>DEMO HOSPITAL</th>
<th>IHS LAB Package</th>
<th>Time: 10:15 AM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 07/27/22</td>
<td>IHS LAB Package</td>
<td>Time: 10:15 AM</td>
</tr>
<tr>
<td>Current VERSION &amp; PATCH Report</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IHS Lab Version 5.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latest IHS Lab Patch: LR<em>5.2</em>1051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latest IHS Lab Patch Install Date/Time: JUL 09, 2022 6:39 PM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 2-2: IHS Lab Version and Patch Report
3.0 **LS Link Transaction Processor Status**

The Link Transaction Processor Status Option was added to the BLR IHS Lab Main Support Menu (BLRMENU). This option allows the user to determine whether the processor that passes data from the Transaction Log to PCC is currently running and whether there are any delays in the transmission of data.

3.1 **LS Option Link Transaction Processor Status**

The LS option is available on the BLRMENU.

<table>
<thead>
<tr>
<th>LR</th>
<th>Laboratory DHCP Menu ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHS Lab Main Support Menu</td>
<td></td>
</tr>
<tr>
<td>LS</td>
<td>Link Transaction Processor Status</td>
</tr>
<tr>
<td>7421</td>
<td>Will restart the 7421 label routine if turned off.</td>
</tr>
<tr>
<td>INQ</td>
<td>Inquire into the IHS LAB Transaction Log</td>
</tr>
<tr>
<td>CPT</td>
<td>Enter/edit IHS Lab CPT File</td>
</tr>
<tr>
<td>STP</td>
<td>Stop/restart Lab to PCC Transaction Processor</td>
</tr>
<tr>
<td>PAMG</td>
<td>Edit IHS Lab Parameters and/or Mail Groups ...</td>
</tr>
<tr>
<td>LVP</td>
<td>IHS Lab Version &amp; Patch Report</td>
</tr>
</tbody>
</table>

Figure 3-1: Shorten display of BLR Menu – LS Option for PCC LINKER

3.2 **Monitoring the Link Transaction Processor Status**

Installation of Laboratory Patches often requires the Processor to be turned off. To assure the PCC Linker was turned ON, post installation of the patch, Laboratorians should check the PCC Linker using the LS Link Transaction Processor Status.

The Currently Processing Day ___ should match the current date.

The LS option is available on the BLRMENU.

| DEMO HOSPITAL |
| Processor Status |
| JUL 17, 2022@10:40:05 |

Currently processing day JUL 17, 2022

<table>
<thead>
<tr>
<th>Event</th>
<th>Entry # in Queue</th>
<th>IHS Lab Transaction Sequence #</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Entry Assigned</td>
<td>28</td>
<td>193</td>
<td>79,770</td>
<td>07/17/2022</td>
</tr>
<tr>
<td>Last Entry Processed</td>
<td>28</td>
<td>193</td>
<td>79,770</td>
<td>07/17/2022</td>
</tr>
</tbody>
</table>

Figure 3-2: Processor Status Example
3.3 Link Transaction Processor Status – HALTED

Installation of Laboratory Patches often requires the Processor to be turned off. Occasionally the PCC Linker will not be turned back to ON after the patch was installed.

The Processor Status displays **Halted by user** when the PCC Linker was not restarted. Picture below provides an example of the Processor Status showing the Halted by user, notice the Currently Processing Day does not match the Current Date.

![Processor Status Example](image)

3.4 Restart Lab to PCC Transaction Processor

Transaction Processor. To restart the PCC Linker, select the **STP Option**, type your Institution name for the “BLR MASTER CONTROL SITE” prompt, and type **NO** for the “STOP PROCESSOR” prompt.

Example of restarting the PCC Linker is as follows:

| LR | Laboratory DHCP Menu ...
<table>
<thead>
<tr>
<th></th>
<th>IHS Lab Main Support Menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS</td>
<td>Link Transaction Processor Status</td>
</tr>
<tr>
<td>7421</td>
<td>Will restart the 7421 label routine if turned off.</td>
</tr>
<tr>
<td>INQ</td>
<td>Inquire into the IHS LAB Transaction Log</td>
</tr>
<tr>
<td>CPT</td>
<td>Enter/edit IHS Lab CPT File</td>
</tr>
<tr>
<td><strong>STP</strong></td>
<td><strong>Stop/restart Lab to PCC Transaction Processor</strong></td>
</tr>
<tr>
<td>PAMG</td>
<td>Edit IHS Lab Parameters and/or Mail Groups ...</td>
</tr>
<tr>
<td>LVP</td>
<td>IHS Lab Version &amp; Patch Report</td>
</tr>
<tr>
<td>POCA</td>
<td>Edit BLR AGE DETAIL Parameter</td>
</tr>
</tbody>
</table>

Select IHS Lab Main Support Menu Option: STP **Stop/restart Lab to PCC Transaction Processor**

Select BLR MASTER CONTROL SITE: DEMO HOSPITAL
It is recommended to check, again, the status of the Link Transaction Processor Status after restarting the PCC Linker.
4.0 LOINC Update Version 2.70

4.1 VA VistA LOINC Updates

IHS RPMS Lab Patch LR*5.2*1051 brings in two (2) VA VistA Lab Patches that will update the LOINC files to LOINC Version 2.70.

4.2 VA VistA LOINC Patch LR*5.2*452

Laboratory Logical Observation Identifiers Names and Codes (LOINC) are intended to incorporate efficiencies in the Department of Veterans to the LOINC in use. The LAB LOINC file (#95.3) currently contains LOINC version 2.68 which was released in 2020. The goal of this patch is to update the LAB LOINC file (#95.3) and related files to version 2.69.

Files Updated in this patch:
- 95.3 LAB LOINC
- 95.31 LAB LOINC COMPONENT
- 64 WKLD CODE
- 64.061 LAB ELECTRONIC CODES
- 64.2 WKLD SUFFIX CODES

4.3 VA VistA LOINC Patch LR*5.2*550

Laboratory Logical Observation Identifiers Names and Codes (LOINC) are intended to incorporate efficiencies in the Department of Veterans to the LOINC in use. The LAB LOINC file (#95.3) currently contains LOINC version 2.69 which was released in 2021. The goal of this patch is to update the LAB LOINC file (#95.3) and related files to version 2.70.

Files Updated in this patch:
- 95.3 LAB LOINC
- 95.31 LAB LOINC COMPONENT
- 64 WKLD CODE
- 64.061 LAB ELECTRONIC CODES
- 64.2 WKLD SUFFIX CODES
## 5.0 State Health Department Report (SHDR)

### 5.1 Add Patient Race and Ethnicity to The State Health Department Report (SHDR)

The State Health Department Report (SHDR), also known as Non-Microbial State Health Department Report, provides the ability to allow non-microbial tests to be sent in a standard report format to state health departments, based upon criteria determined by the state. The State Health Department Report was modified to include the RACE and ETHNICITY to the patient demographics section of the report.

![Figure 5-1: State Health Department Report Patient Example. Race and Ethnicity bolded](image)

### 5.2 BLRSHDRP Routine

The BLRSHDRP routine was written to display the RACE and ETHNICITY information.

### 5.3 Security Key BLRSHDRC

The State Health Department Report menu can only be viewed and accessed by users with the new security key BLRSHDRC.

### 5.4 SHDR State Health Dept Report

The SHDR option is available on the BLRMENU.

<table>
<thead>
<tr>
<th>LR</th>
<th>Laboratory DHCP Menu ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLR</td>
<td>IHS Lab Main Support Menu</td>
</tr>
<tr>
<td>LS</td>
<td>Link Transaction Processor Status</td>
</tr>
<tr>
<td>INQ</td>
<td>Inquire into the IHS LAB Transaction Log</td>
</tr>
<tr>
<td>PC41</td>
<td>Will restart the label routine if turned off.</td>
</tr>
<tr>
<td>FLD</td>
<td>Search Transactions for PCC LINK DISABLE Error</td>
</tr>
<tr>
<td>RSN</td>
<td>Requeue by Sequence Number</td>
</tr>
<tr>
<td>RST</td>
<td>Requeue Transaction by Sort Template</td>
</tr>
<tr>
<td>CPT</td>
<td>Enter/edit IHS Lab CPT File</td>
</tr>
<tr>
<td>FAL</td>
<td>Find ALL PCC Link Errors from Lab</td>
</tr>
<tr>
<td>STP</td>
<td>Stop/restart Lab to PCC Transaction Processor</td>
</tr>
</tbody>
</table>
5.5 Reportable Lab Tests Data Dictionary (90475)

The Health Department Report capability for non-microbial tests is driven via entries in FileMan compliant data dictionary, REPORTABLE LAB TESTS, file 90475. The REPORTABLE LAB TESTS (90475) data dictionary is the "driver" for the Non-Microbial State Health Department report. The entries in the data dictionary triggers which test results are reported. The fields in the file are listed in the following sections.
5.5.1 Field .01 – TEST POINTER
The TEST POINTER field is a pointer to the Laboratory Test file (60). It determines what test will be selected for potential reporting.

5.5.2 Field .03 – VALUE(NUMERIC)
The VALUE(NUMERIC) field is used if the result from the Laboratory Test will be numeric. This is tied to the next field, CONDITION, in that the VALUE(NUMERIC) is checked against the Lab results using the VALUE(NUMERIC) entry combined with the entry in the Condition field.

Users may add numbers between -10000000 and 100000000, 9 Decimal Digits, as the possible numeric value.

5.5.3 Field .04 – CONDITION
The CONDITION field is used to determine if the Laboratory Test result meets the criteria to be included on the report if and only if there is a value in the VALUE(NUMERIC) field.

There are three (3) possible selections:
4    LESS THAN
5    EQUALS
6    GREATER THAN

5.5.4 Field 1 – VALUE SET(SET) (multiple)
The VALUE(SET) field is used if the Laboratory Test has a set of values that have been defined. Since it is a multiple, there can be as many values as needed.

Users may enter a new VALUE(SET), enter a code value representing a positive value.

5.5.5 Field 2 – REPORTING TEXT
The REPORTING TEXT field is an optional field that can rename the lab test name from the Laboratory Test file (60) to print on the State Health Department Report (SHDR). Using this field within this file, it will not change the lab test name in the Laboratory Test file (60).
5.5.6 Field 4 – VALUE(TEXT) (multiple)

The VALUE(TEXT) field is used if the Laboratory Test returns text as values. Because the field is a multiple, there are two (2) sub-fields, VALUE(TEXT) and CONDITION:

5.5.6.1 .01 VALUE(TEXT)

The VALUE(TEXT) field is used if the result from the test will be Free Texted Result. This is tied to the next field, CONDITION, in that the VALUE(TEXT) is checked against the Laboratory Test results using the VALUE(TEXT) entry combined with the entry in the CONDITION field.

5.5.6.2 .02 CONDITION

The CONDITION field is used to determine if the Laboratory Test result meets the criteria to be included on the report if and only if there is a value in the VALUE(TEXT) field.

There are four (4) possible selections:

2 CONTAINS
4 LESS THAN
5 EQUALS
6 GREATER THAN

5.6 Reportable Lab Tests Set Up

This section provides instructions for setting up tables for the following reports that may be required by state health departments:

- RPR
- Hemoglobin A1C
- Estimated GFR

Note: Contact your state health department to determine which reports are required and the parameters for those tests.

This section is organized into three (3) tasks:

- Finding the Data Name
- Reviewing the Data Name
- Setting up the reportable Laboratory Test file
5.6.1 Finding the Data Name

The first task in setting up the tables is finding the Data Name. The following procedure provides instructions.

To find the Data Name:
1. Go to VA FileMan.
2. Use Enter or Edit File Entries.
3. Enter 60 for LABORATORY TEST.
4. Type DATA NAME at the “EDIT WHICH FIELD: ALL” prompt.
5. Press Enter at the “THEN EDIT FIELD:” prompt.
6. Type RPR at the “Select LABORATORY TEST NAME:” prompt.
7. Type _HEMOGLOBIN AIC at the “Select LABORATORY TEST NAME:” prompt.
8. Press Enter.
9. Type ESTIMATED GFR (CKD-EPI) at the “Select LABORATORY TEST NAME:” prompt.
10. Press Enter.
### Reviewing the Data Names

The second task in setting up the tables is reviewing the Data Names. All laboratory patient results are stored in the LAB DATA file and the type of laboratory results (NUMERIC, SET OF CODES, FREE TEXT) being stored is directly related to the Data Name configuration.

To capture accurate laboratory results to report on the State Health Department Report, the Data Name of Lab Test files need to be reviewed. The following procedure provides instructions.

**To review the Data Name:**

1. Go to Laboratory DHCP menu.
2. Select **Supervisor** menu.
3. Select **LAB LIAISON** menu.
4. Select **MOD** for Modify an existing Data Name. This option allows you to modify, however you will NOT modify the Data Name, only view the Data Name configuration.
5. Type **RPR** at the “Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD” prompt.
6. Notice the type of Data Name for this lab test is **SET OF CODES** type.
7. Type **NO** at the “Do you wish to modify this data name?” prompt.
8. Press Enter.

![Screenshot of Modify an existing data name]

Select Lab liaison menu Option: MOD Modify an existing data name

This option allows modifying an existing data name.

Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD: RPR
1   RPR
2   RPR, QUANTITATIVE
3   RPR, QUAL
CHOOSE 1-3: 1   RPR

Data Name: RPR Subfield #: 2907725 Type: SET OF CODES
R   -   REACTIVE
N   -   NON REACTIVE

Do you wish to modify this data name? No// (No)

Figure 5-4: Reviewing the Data Name

9. Select MOD for Modify an existing Data Name.

10. Type **HA1C** at the “Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD” prompt.

11. Notice the type of Data Name for this lab test is **NUMERIC** type.

12. Type **NO** at the “Do you wish to modify this data name?” prompt.

13. Press Enter.

![Screenshot of Modify an existing data name]

Select Lab liaison menu Option: MOD Modify an existing data name

This option allows modifying an existing data name.

Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD: HA1C

Data Name: HA1C Subfield #: 2907621 Type: NUMERIC
Input Transform: S Q9="5.0,18.9,1" D ^LRNUM
Minimum value: 5.0
Maximum value: 18.9
Maximum # decimal digits: 1

Do you wish to modify this data name? No//

Figure 5-5: Reviewing the Data Name

14. Select MOD for Modify an existing Data Name.

15. Type **CKD EPI 112016** at the “Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD” prompt.

16. Notice the type of Data Name for this lab test is **FREE TEXT** type.

17. Type **NO** at the “Do you wish to modify this data name?” prompt.
18. Press Enter.

<table>
<thead>
<tr>
<th>Select Lab liaison menu Option: MOD  Modify an existing data name</th>
</tr>
</thead>
<tbody>
<tr>
<td>This option allows modifying an existing data name.</td>
</tr>
<tr>
<td>Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD: CKD</td>
</tr>
<tr>
<td>1  CKD EPI 112016</td>
</tr>
<tr>
<td>2  CDK EST GFR</td>
</tr>
<tr>
<td>CHOOSE 1-2: 1  CKD EPI 112016</td>
</tr>
</tbody>
</table>

| Data Name: CKD EPI 112016  Subfield #: 2907672  Type: FREE TEXT |
| Input Transform: K:$L(X)>6!($L(X)<1) X                     |
| Minimum length: 1                                           |
| Maximum length: 6                                           |

Do you wish to modify this data name? No/

Figure 5-6: Reviewing the Data Name

You have reviewed the parameters for the three tests: RPR, _HEMOGLOBIN A1C, and ESTIMATED GFR (CKD-EPI). The next step is to configure the reportable lab test file.

5.6.3 Configuring the Lab Test File – Data Name (NUMERIC)

The final task in setting up the tables is configuring the Laboratory Test for the STATE HEALTH DEPARTMENT REPORT using the FileMan file named REPORTABLE LAB TESTS file.

The following example provides the data input for the Laboratory Test named _HEMOGLOBIN A1C, it is an atomic result-able laboratory test, and may be included in a panel Laboratory Test named HA1C + EAG, for example.

The Data Name named HA1C was using the NUMERIC type.

Add the Laboratory Test to the REPORTABLE LAB TEST file, add the values to the VALUE(NUMERIC) field for the reportable lab result value, and add to the CONDITION field to capture the numeric value as GREATER THAN.

Steps to configure the STATE HEALTH DEPARTMENT REPORT for Laboratory Test named _HEMOGLOBIN A1C with Data Name using NUMERIC type:

1. Go to VA FileMan.
2. Use Enter or Edit File Entries.
3. Type REPORTABLE LAB TESTS.
4. Press Enter at the “THEN EDIT FIELD:” prompt.
5. Type **HEMOGLOBIN AIC** at the “Select REPORTABLE LAB TESTS TEST POINTER:” prompt.

6. Type **YES** at the “Are you adding '_HEMOGLOBIN A1C' as a new REPORTABLE LAB TESTS?:” prompt.

7. Enter 7 at the “VALUE(NUMERIC):” prompt.

8. Enter **GREATER THAN** at the “CONDITION:” prompt.


10. Type **Hemoglobin A1c** at the “REPORTING TEXT:” prompt for the lab test name to print on SHDR report- Optional.

11. No entry for “VALUE(TEXT):” prompt.

12. Press Enter.

```c
Select VA FileMan Option: EEnter or Edit File Entries
INPUT TO WHAT FILE: REPORTABLE LAB TESTS//
EDIT WHICH FIELD: ALL//

Select REPORTABLE LAB TESTS TEST POINTER: Are you adding '_HEMOGLOBIN A1C' as a new REPORTABLE LAB TESTS (the 7TH)? No// Y (Yes)
VALUE(NUMERIC): 7//
CONDITION: GREATER THAN//
Select VALUE(SET):
REPORTING TEXT: Hemoglobin A1c//
Select VALUE(TEXT):

Select REPORTABLE LAB TESTS TEST POINTER:
```

Figure 5-7: Configure the REPORTABLE LAB TESTS report

5.6.4 **Configuring the Lab Test File – Data Name (SET OF CODES)**

The final task in setting up the tables is configuring the Laboratory Test for the STATE HEALTH DEPARTMENT REPORT using the FileMan file named REPORTABLE LAB TESTS file.

The following example provides the data input for the Laboratory Test named RPR, it is an atomic result-able laboratory test and is not part of a panel Laboratory Test.

The Data Name named RPR was using the SET OF CODES type.

Add the Laboratory Test to the REPORTABLE LAB TEST file and add the Set Of Codes values to the VALUE(SET) field for the reportable lab result value.
Steps to configure the STATE HEALTH DEPARTMENT REPORT for Laboratory Test named RPR with Data Name using SET OF CODES type:

1. Go to VA FileMan.
2. Use Enter or Edit File Entries.
3. Type **REPORTABLE LAB TESTS**.
4. Press Enter at the “THEN EDIT FIELD:” prompt.
5. Type **RPR** at the “Select REPORTABLE LAB TESTS TEST POINTER:” prompt.
6. Type **YES** at the “Are you adding 'RPR' as a new REPORTABLE LAB TESTS?” prompt.
7. No entry for “VALUE(NUMERIC):” prompt.
8. No entry for “CONDITION:” prompt.
9. Enter **R, r, REACTIVE** at the “VALUE(SET):” prompt.
10. No entry for “REPORTING TEXT:” prompt. This field entry is optional.
11. No entry for “VALUE(TEXT):” prompt.
12. Press Enter.

<table>
<thead>
<tr>
<th>Select VA FileMan Option: ENter or Edit File Entries</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT TO WHAT FILE: REPORTABLE LAB TESTS//</td>
</tr>
<tr>
<td>EDIT WHICH FIELD: ALL//</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Select REPORTABLE LAB TESTS TEST POINTER: Are you adding 'RPR' as a new REPORTABLE LAB TESTS (the 8TH)? No// Y (Yes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VALUE(NUMERIC):</td>
</tr>
<tr>
<td>CONDITION:</td>
</tr>
<tr>
<td>Select VALUE(SET): REACTIVE</td>
</tr>
<tr>
<td>Are you adding 'REACTIVE' as a new VALUE(SET) (the 1ST for this REPORTABLE LAB TESTS)? No// Y (Yes)</td>
</tr>
<tr>
<td>Select VALUE(SET): “R”</td>
</tr>
<tr>
<td>Are you adding 'R' as a new VALUE(SET) (the 2ND for this REPORTABLE LAB TESTS)? No// Y (Yes)</td>
</tr>
<tr>
<td>Select VALUE(SET): “r”</td>
</tr>
<tr>
<td>Are you adding 'r' as a new VALUE(SET) (the 3RD for this REPORTABLE LAB TESTS)? No// Y (Yes)</td>
</tr>
<tr>
<td>Select VALUE(SET):</td>
</tr>
<tr>
<td>REPORTING TEXT:</td>
</tr>
<tr>
<td>Select VALUE(TEXT):</td>
</tr>
</tbody>
</table>
5.6.5 Configuring the Lab Test File – Data Name (FREE TEXT)

The final task in setting up the tables is configuring the Laboratory Test for the STATE HEALTH DEPARTMENT REPORT using the FileMan file named REPORTABLE LAB TESTS file.

The following example provides the data input for the Laboratory Test named ESTIMATED GFR (CKD-EPI), it is an atomic result-able laboratory test, and it is included in multiple panels, such as Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), and Renal Panel.

The Data Name named CKD EPI 112016 was using the FREE TEXT type.

Add the Laboratory Test to the REPORTABLE LAB TEST file and add the Free Text values to the VALUE(TEXT) field for the reportable lab result value.

Steps to configure the STATE HEALTH DEPARTMENT REPORT for Laboratory Test named ESTIMATED GFR (CKD-EPI) with Data Name using FREE TEXT type:

1. Go to VA FileMan.
2. Use Enter or Edit File Entries.
3. Type REPORTABLE LAB TESTS.
4. Press Enter at the “THEN EDIT FIELD:” prompt.
5. Type ESTIMATED GFR (CKD-GFR) at the “Select REPORTABLE LAB TESTS TEST POINTER:” prompt.
6. Type Yes at the “Are you adding 'ESTIMATED GFR (CKD-EPI)' as a new REPORTABLE LAB TESTS?:” prompt.
7. No entry for “VALUE(NUMERIC):” prompt.
8. No entry for “CONDITION:” prompt
10. No entry for “REPORTING TEXT:” prompt. This field entry is optional.
11. Enter 29 for “VALUE(TEXT):” prompt.
12. Enter LESS THAN for the “CONDITION:” prompt.
13. Press Enter.

```
Select VA FileMan Option: ENter or Edit File Entries

INPUT TO WHAT FILE: REPORTABLE LAB TESTS/
EDIT WHICH FIELD: ALL/

Select REPORTABLE LAB TESTS TEST POINTER: Are you adding 'ESTIMATED GFR (CKD-EPI)' as a new REPORTABLE LAB TESTS (the 9TH)? No// Y  (Yes)
VALUE(NUMERIC):
CONDITION:
Select VALUE(SET):
REPORTING TEXT:
Select VALUE(TEXT): 60
   Are you adding '60' as a new VALUE(TEXT) (the 1ST for this REPORTABLE LAB TESTS)? No// Y  (Yes)
   CONDITION: LESS   LESS THAN
Select VALUE(TEXT):
Select REPORTABLE LAB TESTS TEST POINTER:
```

Figure 5-9: Configure the REPORTABLE LAB TESTS report

## 5.7 State Health Department Report – Report Example

The State Health Department Report (SHDR), also known as Non-Microbial State Health Department Report, the report was modified to include the RACE and ETHNICITY to the patient demographics section of the report.

To generate the State Health Department Report, use the SHDR menu option from the BLR IHS Lab Main Support Menu.

Follow the steps below to generate a report using SHDR option:

```
LR Laboratory DHCP Menu ...
BLR IHS Lab Main Support Menu
SHDR State Health Dept Report
   Select INSTITUTION site name
   Enter Start Date
   Enter End Date
   Select DEVICE PRINTER to print
```

Default Site/Address for Report is the name and address of the INSTITUTION selected. If there are multi-divisions at your facility, please select the appropriate facility name to generate the SHDR report.

```
Default Site/Address for Report:

   DEMO HOSPITAL
   90001 1ST AVE CORNER OF O'MALLEY
   ALBUQUERQUE FE, NM 87000

Use Site DEMO HOSPITAL as Report Header? YES// NO
Select INSTITUTION NAME: 2021 DEMO HOSPITAL (INST)// DEMO CLINIC
```
### Lookup: NAME

<table>
<thead>
<tr>
<th></th>
<th>DEMO CLINIC-1</th>
<th>WEST</th>
<th>ALBUQUERQUE</th>
<th>02</th>
<th>NM</th>
<th>8992A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DEMO CLINIC-2</td>
<td>EAST</td>
<td>ALBUQUERQUE</td>
<td>06</td>
<td>MD</td>
<td>8992E</td>
</tr>
</tbody>
</table>

CHOOSE 1-2:

---

#### Figure 5-10: Site/Address for SHDR Report

### 5.7.1 HEMOGLOBIN A1C – SHDR Sample Report

The following report is an example of a non-microbial state health department report. Remember when printing these reports to print to a 132 character printer.

<table>
<thead>
<tr>
<th>Name</th>
<th>ID#</th>
<th>DOB</th>
<th>Sex</th>
<th>Lab #</th>
<th>Sample</th>
<th>Col Dt</th>
<th>Cpl Dt</th>
<th>Provider</th>
<th>Phone #</th>
<th>Address</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMO, ALISTER LANE</td>
<td>124625</td>
<td>05/20/1980</td>
<td>M</td>
<td>CH 0728 16</td>
<td>BLOOD</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>RADON, NICHOLAS M JR</td>
<td>555-555-5994</td>
<td>PO BOX 1302</td>
<td>ALB</td>
</tr>
<tr>
<td>Race: AMERICAN INDIAN OR ALASKA NATIVE</td>
<td>Ethnicity:</td>
<td>Result: 15</td>
<td>Current COMMUNITY:</td>
<td>KINGMAN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEMO, ASHLEY</td>
<td>114649</td>
<td>02/25/2000</td>
<td>F</td>
<td>CH 0728 19</td>
<td>BLOOD</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>RADON, NICHOLAS M JR</td>
<td>15555559833</td>
<td>P.O. BOX 1038</td>
<td>ALB</td>
</tr>
<tr>
<td>Race: AMERICAN INDIAN OR ALASKA NATIVE</td>
<td>Ethnicity: NOT HISPANIC OR LATINO</td>
<td>Result: 10</td>
<td>Current COMMUNITY:</td>
<td>PARKER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEMO, DEJON</td>
<td>115569</td>
<td>02/01/1949</td>
<td>M</td>
<td>CH 0728 20</td>
<td>BLOOD</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>ROMANCITO, KAREN</td>
<td>555-555-7538</td>
<td>P.O. BOX 1131</td>
<td>OKLAHOMA CITY</td>
</tr>
<tr>
<td>Race: AMERICAN INDIAN OR ALASKA NATIVE</td>
<td>Ethnicity: NOT HISPANIC OR LATINO</td>
<td>Result: 9</td>
<td>Current COMMUNITY:</td>
<td>SPEARFISH</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEMO, AMENDMENT ONE</td>
<td>124221</td>
<td>04/19/1954</td>
<td>F</td>
<td>CH 0728 17</td>
<td>BLOOD</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>RADON, NICHOLAS M JR</td>
<td>555-555-4287</td>
<td>46545 VERDOGORD</td>
<td>ALB</td>
</tr>
<tr>
<td>Race: WHITE</td>
<td>Ethnicity: NOT HISPANIC OR LATINO</td>
<td>Result: 10</td>
<td>Current COMMUNITY:</td>
<td>PHOENIX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEMO, AMENDMENT TWO</td>
<td>112025</td>
<td>05/22/1980</td>
<td>M</td>
<td>CH 0728 18</td>
<td>BLOOD</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>RADON, NICHOLAS M JR</td>
<td>555-555-6579</td>
<td>PO BOX 2803</td>
<td>ALB</td>
</tr>
<tr>
<td>Race: AMERICAN INDIAN OR ALASKA NATIVE</td>
<td>Ethnicity: NOT HISPANIC OR LATINO</td>
<td>Result: 13</td>
<td>Current COMMUNITY:</td>
<td>PARKER</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Medical Technologist ______________________ Date ________________

---

Figure 5-11: State Health Department Report Patient Example.
5.7.2 RPR – SHDR Sample Report

The following report is an example of a non-microbial state health department report. Remember when printing these reports to print to a 132 character printer.

<table>
<thead>
<tr>
<th>Name</th>
<th>ID#</th>
<th>DOB</th>
<th>Sex</th>
<th>Lab #</th>
<th>Sample</th>
<th>Col Dt</th>
<th>Cpl Dt</th>
<th>Provider</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMO, ALISTER LANE</td>
<td>124625</td>
<td>05/20/1980</td>
<td>M</td>
<td>CH 0728 11</td>
<td>SERUM</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>RADON, NICHOLAS M JR</td>
</tr>
<tr>
<td>Address</td>
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<td>Address</td>
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<td>Phone #</td>
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<td>M</td>
<td>CH 0728 13</td>
<td>SERUM</td>
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</tr>
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<td></td>
<td>Current</td>
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<td>CH 0728 15</td>
<td>SERUM</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Result:</td>
<td></td>
<td></td>
<td></td>
<td>Result:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REACTIVE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current COMMUNITY:</td>
<td>PEACH SPRGS</td>
<td></td>
<td></td>
<td>Current</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>__________________________</td>
<td>______________________</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Technologist</td>
<td></td>
<td></td>
<td></td>
<td>Date:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 5-12: State Health Department Report Patient Example

5.7.3 ESTIMATED GFR – SHDR Sample Report

The following report is an example of a non-microbial state health department report. Remember when printing these reports to print to a 132 character printer.
<table>
<thead>
<tr>
<th>Name</th>
<th>ID#</th>
<th>DOB</th>
<th>Sex</th>
<th>Lab #</th>
<th>Sample</th>
<th>Col Dt</th>
<th>Cpl Dt</th>
<th>Provider</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMO, ALISTER LANE</td>
<td>124625</td>
<td>05/20/1980</td>
<td>M</td>
<td>CH 0728 7</td>
<td>SERUM</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>RADON, NICHOLAS M JR, 555-555-5994, PO BOX 1302, ALB, NEW MEXICO</td>
</tr>
<tr>
<td>DEMO, ASHLEY</td>
<td>114649</td>
<td>02/25/2000</td>
<td>F</td>
<td>CH 0728 8</td>
<td>SERUM</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>RADON, NICHOLAS M JR, 1555-555-9833, P.O. BOX 1038, ALB, NEW MEXICO</td>
</tr>
<tr>
<td>DEMO, AMENDMENT ONE</td>
<td>124221</td>
<td>04/19/1954</td>
<td>F</td>
<td>CH 0728 6</td>
<td>SERUM</td>
<td>07/28/22</td>
<td>07/28/22</td>
<td>RADON, NICHOLAS M JR, 555-555-4287, 46545 VERDUGORD, ALB, NEW MEXICO</td>
</tr>
</tbody>
</table>

**Race:** AMERICAN INDIAN OR ALASKA NATIVE  
**Ethnicity:** NOT HISPANIC OR LATINO  
**Result:** 25.48  
**Current COMMUNITY:** KINGMAN  

**Race:** AMERICAN INDIAN OR ALASKA NATIVE  
**Ethnicity:** NOT HISPANIC OR LATINO  
**Result:** 28.96  
**Current COMMUNITY:** PARKER  

**Race:** WHITE  
**Ethnicity:** NOT HISPANIC OR LATINO  
**Result:** 27.68  
**Current COMMUNITY:** PHOENIX

Figure 5-13: State Health Department Report Patient Example
6.0 In-Patient Lab Orders – Lab Collect

Inpatient laboratory test orders for blood specimens to be drawn as part of a scheduled lab collection entered in the RPMS/Electronic Health Record (EHR) using the Lab Collect routine - means the phlebotomist from laboratory will draw the blood specimens from patients that are on Inpatient ward(s).

The orders for the In-Patient wards are entered into the computer by the physician, clerk, or nurse before the cut-off times to ensure the tests will be included on the COLLECTION LIST.

The defined collection times can be added to the PHLEBOTOMY ORDER CUT-OFF TIME field within the LABORATORY SITE (69.9) file.

Those orders are retained by the Laboratory software and combined when the collection list is created using the Add to Collection List option.

The lab can then print the collection list and labels by using the Print Collection List/Labels option for use during the draw.

Receipt of the specimens collected and cancellation of those not collected (with the appropriate comments) is acknowledged using the Itemized Routine Lab Collection or Receipt of Routine Lab Collection from Wards options to release the accessions for generation of work in the lab.

The labeled specimens are then distributed to each laboratory area for processing.

6.1 Modified Routines – Lab Collect

BLRRLEVN routine was written to correct errors using Lab Collect and Reference Laboratory orders

BLRSHPM routine was written to correct the error of incorrect DOB & GENDER printing on the Shipping Manifest for Reference Lab Orders.

6.2 Using Lab Collect

6.2.1 Print Lab Collection List:

Each morning the laboratory staff will collect blood specimens for testing from in-house patients. The laboratory staff must build/create a COLLECTION LIST of tests ordered in Electronic Health Records for the inpatients. The RPMS Laboratory Package system will build the COLLECTION LIST that is organized and defined by ward location, patient name, and laboratory tests. Once the COLLECTION LIST is created and completed, it will print the list and labels.
1. Select **Laboratory Menu** option.
2. Select **Phlebotomy Menu** option.
3. Select **Add to collection list** option.
4. Date and Time of collection: T@7:00AM/
   a. **Defaults to the next timed collection**
5. Are you sure? No/ YES
   a. The collection list for, last timed draw, still exist, you must clear it before building a new list.
6. Are you ready to clear the current collection list and start a new one? No/ YES
7. BUILDING THE LIST:
8. Once the Collection List is created, you will have two (2) options, select **LIST**.
9. No entry for “Starting Location:” prompt.
10. No entry for “Ending Location:” prompt.
11. **DEVICE**: printer for list
    a. Once the List is printed, you will have two (2) options, again, select **LABELS**.
12. Print labels on **LABLABEL**.
13. No entry for “Station Location:” prompt.
14. No entry for “Ending Location:” prompt.
15. No entry for “Request Start Time:” prompt.
16. No entry for “Choose:” prompt.

### RPMS Laboratory Menu

1. Phlebotomy menu ...
2. Accessioning menu
3. Process data in lab menu
4. Quality control menu
5. Results menu
10. Microbiology menu
11. Supervisor menu
BLR  IHS Lab Main Support Menu
WARD  Ward lab menu

Select Laboratory DHCP Menu Option: 1  Phlebotomy menu

Add tests to a given accession.
Add tests to an already existing order number.

Add to collection list
Delete entire order or individual tests
Itemized routine lab collection
Lab orders by collection type
Lab test order
List of lab orders not collected
List of orders not collected (Long form)
Order/test status
Print collection list/labels
Print future collection labels
Print single future collection label
Receipt of routine lab collection from wards
Test description information
Ward lab menu

Select Phlebotomy menu Option: ADD TO COLLECTION LIST
Date and Time of collection: T@10:00AM// (JUL 29, 2022@10:00)
Are you sure? No// Y (Yes)
The collection list for 05/20/2022 10:30 still exists, you must clear it before building a new list.
Are you ready to clear the current collection list and start a new one?
No// Y (Yes)

BUILDING THE LIST

3 specimens added to collection list.
1 LIST
2 LABELS

Choose: 1

Starting Location: <RETURN>
Ending location: <RETURN>
DEVICE:
1 LIST
2 LABELS

Choose: 2
Print labels on: LABLABEL// LABLABEL

Starting Location: <RETURN>
Ending location: <RETURN>
Requested Start Time: NOW// <RETURN>
1 LIST
2 LABELS

Choose: <RETURN>

Add tests to a given accession.
Add tests to an already existing order number.
Add to collection list
Delete entries order or individual tests.
Itemized routine lab collection
Lab orders by collection type
Lab test order
List of lab orders not collected
List of orders not collected (Long form)
Order/test status
Print collection list/labels
Print future collection labels
6.2.2 Receiving AM Lab Collect Specimens:

After the phlebotomists have completed the blood sample collections, they return to the laboratory department to “RECEIVE” the specimens in the RPMS Laboratory Package system.

Laboratory orders for Lab Collect can be posted to the collection list that are not collected and can be held for collections at a later time or cancelled.

Laboratory orders for Lab Collect can be posted to the collection list that are COLLECTED but not received (date/time of actual of collection), will have to be received at the time the results for the requested tests are verified using the EM enter/verify/modify (manual) or EA Enter/verify data (auto instrument) resulting.

1. Select **Laboratory Menu** option.
2. Select **Phlebotomy Menu** option.
3. Select **Receipt of routine lab collections from wards** option.
   a. Receipt of collection for each ward-location.
4. Select PATIENT LOCATION: ALL//
   a. Type in first ward-location.
5. Enter Order Numbers **not** collected:
6. Enter Order #(s):
   a. Enter the lab order number(s) NOT COLLECTED.
   b. Now enter any orders that are not canceled but you do not want "collected", yet.
   c. If all remaining orders are collected, skip this entry.
   d. Any order #’s entered here will remain on collection list until 12 midnight.
   e. The orders will not 'rollover' to the next day’s collection list.
7. Enter Order #(s):
   a. Type the order number(s) COLLECTED for **first** ward-location.
8. Enter Order #(s):
9. Ready to accept the rest of the orders? No//YES

10. Select PATIENT LOCATION: ALL//

   a. Type in second ward-location.

11. Enter Order Numbers not collected:

12. Enter Order #(s):

   a. Enter the lab order number(s) NOT COLLECTED.
   b. Now enter any orders that are not canceled but you do not want "collected", yet.
   c. If all remaining orders are collected, skip this entry.
   d. Any order #'s entered here will remain on collection list until 12 midnight.
   e. The orders will not 'rollover' to the next day’s collection list.

13. Enter Order #(s):

   a. Type the order number(s) COLLECTED for second ward-location.

14. Enter Order #(s):

15. Ready to accept the rest of the orders? No//YES

16. REPEAT for each ‘LOCATION’ or ward-location.

RPMS Laboratory Menu

1      Phlebotomy menu   ...  
2      Accessioning menu
3      Process data in lab menu
4      Quality control menu
5      Results menu
10     Microbiology menu
11     Supervisor menu
    BLR    IHS Lab Main Support Menu
    WARD  Ward lab menu

Select Laboratory DHCP Menu Option: 1   Phlebotomy menu

  Add tests to a given accession.
  Add tests to an already existing order number.
  Add to collection list
  Delete entire order or individual tests
  Itemized routine lab collection
  Lab orders by collection type
  Lab test order
  List of lab orders not collected
  List of orders not collected (Long form)
  Order/test status
  Print collection list/labels
  Print future collection labels
  Print single future collection label
  Receipt of routine lab collection from wards
<table>
<thead>
<tr>
<th>Test description information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ward lab menu</td>
</tr>
</tbody>
</table>

Select Phlebotomy menu <TEST ACCOUNT> Option: REceipt of routine lab collection from wards

Select PATIENT LOCATION: ALL// ICU  *(first ward-location)*
Enter Order Numbers not collected:
Enter Order #(s):

Now enter any orders that are not canceled but you don't want "collected", yet.
If all remaining orders are collected, skip this entry.
Any order #'s entered here will remain on collection list until 12 midnight.
The orders will not 'rollover' to the next days collection list.
Enter Order #(s):
    1179

1179 OK,
Enter Order #(s):

Ready to accept the rest of the orders? No// YES

Select PATIENT LOCATION: ALL// EAST RM 110  *(second ward-location)*
You're doing the entire collection? No// YES   *(Yes)*
Enter Order Numbers not collected:
Enter Order #(s):

Now enter any orders that are not canceled but you don't want "collected", yet.
If all remaining orders are collected, skip this entry.
Any order #'s entered here will remain on collection list until 12 midnight.
The orders will not 'rollover' to the next days collection list.
Enter Order #(s):
    1178

1178 OK,
Enter Order #(s):

Ready to accept the rest of the orders? No// YES   *(Yes)*

Select PATIENT LOCATION: ALL// *(Repeats - different ward-location)*

Ready to accept the rest of the orders? No//   *(No)*

Add tests to a given accession.
Add tests to an already existing order number.
Add to collection list
Delete entire order or individual tests
Itemized routine lab collection
Lab orders by collection type
Lab test order
List of lab orders not collected
List of orders not collected (Long form)
Order/test status
Print collection list/labels
Print future collection labels
Print single future collection label
Receipt of routine lab collection from wards
Test description information
Ward lab menu ...

Figure 6-2: Receipt of routine lab collection from wards
7.0 IHS LAB TRANSACTION LOG – Add LOINC and IHS LOINC Codes to the File

Confirming all laboratory data passes to Patient Care Component (PCC), Laboratorians should review the data using the INQ Inquire into the IHS LAB Transaction Log. The INQ menu option is on the BLR IHS Lab Main Support Menu, and the BLR Menu is located on the Laboratory DHCP Menu.

In order for the PCC to accept LOINC DATA that is passed from the Laboratory Package, an entry must exist in the Site/Specimen for the result-able laboratory test that contains the result.

In order for the PCC to accept CPT DATA that is passed from the Laboratory Package, an entry must exist in the IHS LAB CPT CODE file for each billable lab test associated with the lab order. The entry must identify the associated panel or test.

Follow the steps below to review laboratory data using INQ:

INQ Inquire into the IHS LAB Transaction Log. (Example: Panel)

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: HE 22 18

1 HE 22 18 1312 (This is the Panel Test)
2 HE 22 18 1313 (This is the First Atomic Test in the Panel)
3 HE 22 18 1314 (This is the Second Atomic Test in the Panel)
4 HE 22 18 1315 (This is the Third Atomic Test in the Panel)
5 HE 22 18 1316 (This is the Fourth Atomic Test in the Panel)
6 HE 22 18 1317 (This is the Fifth Atomic Test in the Panel)

INQ Inquire into the IHS LAB Transaction Log. (Example: CBC PANEL)

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: HE 22 18

7.1 Example: INQ Inquire into the IHS LAB Transaction Log

This example displays the lab data for the resulted accession number HE 22 18. Review the Status Flag as Resulted, Billing CPT-85025, LOINC codes per Atomic Lab Test, and the IHS LOINC code for the Panel Lab Test (IHS LOINC is the ORDER LOINC).
LR Laboratory DHCP Menu ...
IHS Lab Main Support Menu

LS     Link Transaction Processor Status
7421  Will restart the 7421 label routine if turned off.
INQ    Inquire into the IHS LAB Transaction Log
CPT    Enter/edit IHS Lab CPT File
STP    Stop/restart Lab to PCC Transaction Processor
PAMG   Edit IHS Lab Parameters and/or Mail Groups ...
LVP    IHS Lab Version & Patch Report

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: HE 22 18
1   HE 22 18   1312
2   HE 22 18   1313
3   HE 22 18   1314
4   HE 22 18   1315
5   HE 22 18   1316
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 1   1312

DEVICE:   Virtual
IHS LAB TRANSACTION LOG LIST                   JUL  27, 2022   17:19    PAGE 1

---------------------------------------------------------------------------
SEQUENCE NUMBER: 1312                   LRFILE: 2
PATIENT POINTER VALUE: 26737
PANEL/TEST POINTER: CBC W/Auto DIFF <- PANEL TEST
LAB MODULE: GENERAL                   DUZ(2): 2906
I/O CATEGORY: OUT PATIENT             STATUS FLAG: RESULTED
ENTRY DATE/TIME: JUL 27, 2022@16:58:32
ASSOCIATED V FILE: V LAB              IEN OF V FILE ENTRY: 4295142
CLINIC STOP CODE POINTER: LABORATORY SERVICES
CPT LAB CODE POINTER: CBC W/AUTO DIFF
BILLING CPT STRING: 85025                             CLINICAL INDICATOR: 139690015
ORDER DATE: JUL 27, 2022@16:58:21     ORDER SEQUENCE NUMBER: 1
ORDER NUMBER: 1155
ORDERING PROVIDER POINTER: RADON,NICHOLAS M JR
ORDERING LOCATION POINTER: LAB HOSPITAL (LOC)
COLLECTION DATE/TIME: JUL 27, 2022@16:58:21
ACCESSION NUMBER: HE 22 18            COLLECTION SAMPLE POINTER: BLOOD (EDTA)
COMPLETE DATE: JUL 27, 2022@17:00:21  LOINC CODE: 57021 <- ORDER LOINC CODE
PROVIDER NARRATIVE: Fatigue           SNOMED: 139690015
ICD: R53.83                           SITE/SPECIMEN POINTER: BLOOD

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1313

DEVICE:   Virtual
IHS LAB TRANSACTION LOG LIST                   JUL  27, 2022   17:20    PAGE 1

---------------------------------------------------------------------------
SEQUENCE NUMBER: 1313                   LRFILE: 2
PATIENT POINTER VALUE: 26737
PANEL/TEST POINTER: WBC.  <- Lab Test

[Addendum to User Manual] IHS LAB TRANSACTION LOG – Add LOINC and IHS LOINC Codes to the File
August 2022
LAB MODULE: GENERAL                  DUZ(2): 2906
I/O CATEGORY: OUT PATIENT            PARENT POINTER: 1312
STATUS FLAG: RESULTED                ENTRY DATE/TIME: JUL 27, 2022@16:58:32
ASSOCIATED V FILE: V LAB              IEN OF V FILE ENTRY: 4295143
CLINIC STOP CODE POINTER: LABORATORY SERVICES
ORDER DATE: JUL 27, 2022@16:58:21     ORDER SEQUENCE NUMBER: 1
ORDER NUMBER: 1155
ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR
ORDERING LOCATION POINTER: LAB HOSPITAL (LOC)
COLLECTION DATE/TIME: JUL 27, 2022@16:58:21
ACCESSION NUMBER: HE 22 18            COLLECTION SAMPLE POINTER: BLOOD (EDTA)
COMPLETE DATE: JUL 27, 2022@17:00:21  LOINC CODE: 33765  <- RESULT LOINC CODE
RESULT: 6.7                           UNITS: 10^3/uL
SITE/SPECIMEN POINTER: BLOOD          VERIFIER POINTER: DEMO, TECH
REFERENCE LOW: 4.3                    REFERENCE HIGH: 10.8

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1314

DEVICE: Virtual

IHS LAB TRANSACTION LOG LIST           JUL 27, 2022  17:20  PAGE 1
------------------------------------------------------------------------------------------
SEQUENCE NUMBER: 1314                   LRFILE: 2
PATIENT POINTER VALUE: 26737            PANEL/TEST POINTER: RBC.  <- Lab
Lab Test
LAB MODULE: GENERAL                  DUZ(2): 2906
I/O CATEGORY: OUT PATIENT            PARENT POINTER: 1312
STATUS FLAG: RESULTED                ENTRY DATE/TIME: JUL 27, 2022@16:58:32
ASSOCIATED V FILE: V LAB              IEN OF V FILE ENTRY: 4295143
CLINIC STOP CODE POINTER: LABORATORY SERVICES
ORDER DATE: JUL 27, 2022@16:58:21     ORDER SEQUENCE NUMBER: 1
ORDER NUMBER: 1155
ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR
ORDERING LOCATION POINTER: LAB HOSPITAL (LOC)
COLLECTION DATE/TIME: JUL 27, 2022@16:58:21
ACCESSION NUMBER: HE 22 18            COLLECTION SAMPLE POINTER: BLOOD (EDTA)
COMPLETE DATE: JUL 27, 2022@17:00:21  LOINC CODE: 789  <- RESULT LOINC CODE
RESULT: 5.03                           UNITS: M/uL
SITE/SPECIMEN POINTER: BLOOD          VERIFIER POINTER: DEMO, TECH
REFERENCE LOW: 4                       REFERENCE HIGH: 5.4

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1315

DEVICE: Virtual

IHS LAB TRANSACTION LOG LIST           JUL 27, 2022  17:20  PAGE 1
------------------------------------------------------------------------------------------
SEQUENCE NUMBER: 1315                   LRFILE: 2
PATIENT POINTER VALUE: 26737            PANEL/TEST POINTER: HGB.  <- Lab
Lab Test
LAB MODULE: GENERAL                  DUZ(2): 2906
<table>
<thead>
<tr>
<th>I/O CATEGORY: OUT PATIENT</th>
<th>PARENT POINTER: 1312</th>
</tr>
</thead>
<tbody>
<tr>
<td>STATUS FLAG: RESULTED</td>
<td>ENTRY DATE/TIME: JUL 27, 2022@16:58:32</td>
</tr>
<tr>
<td>ASSOCIATED V FILE: V LAB</td>
<td>IEN OF V FILE ENTRY: 4295145</td>
</tr>
<tr>
<td>CLINIC STOP CODE POINTER: LABORATORY SERVICES</td>
<td></td>
</tr>
<tr>
<td>ORDER DATE: JUL 27, 2022@16:58:21</td>
<td>ORDER SEQUENCE NUMBER: 1</td>
</tr>
<tr>
<td>ORDER NUMBER: 1155</td>
<td>ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR</td>
</tr>
<tr>
<td>ORDERING LOCATION POINTER: LAB HOSPITAL (LOC)</td>
<td></td>
</tr>
<tr>
<td>COLLECTION DATE/TIME: JUL 27, 2022@16:58:21</td>
<td></td>
</tr>
<tr>
<td>ACCESSION NUMBER: HE 22 18</td>
<td>COLLECTION SAMPLE POINTER: BLOOD</td>
</tr>
<tr>
<td>COMPLETE DATE: JUL 27, 2022@17:00:21</td>
<td></td>
</tr>
</tbody>
</table>

**LOINC CODE: 30313** <- RESULT LOINC CODE

**RESULT: 14.7**

**UNITS: g/dL**

**SITE/SPECIMEN POINTER: BLOOD**

**VERIFIER POINTER: DEMO, TECH**

**REFERENCE LOW: 13.5**

**REFERENCE HIGH: 18**

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1316

<table>
<thead>
<tr>
<th>DEVICE: Virtual</th>
</tr>
</thead>
</table>

**LOINC CODE: 30313** <- RESULT LOINC CODE

---

**SEQUENCE NUMBER: 1316**

**PATIENT POINTER VALUE: 26737**

**PANEL/TEST POINTER: HCT.** <- Lab Test

**LAB MODULE: GENERAL**

**DUZ(2): 2906**

**RESULT: 45.6**

**RESULT N/A FLAG: H**

**UNITS: %**

**SITE/SPECIMEN POINTER: BLOOD**

**VERIFIER POINTER: DEMO, TECH**

**REFERENCE LOW: 35**

**REFERENCE HIGH: 45**

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1317

| DEVICE: Virtual |

---

**SEQUENCE NUMBER: 1317**

**PATIENT POINTER VALUE: 26737**

**PANEL/TEST POINTER: MCV.** <- Lab Test

**LAB MODULE: GENERAL**

**DUZ(2): 2906**
<table>
<thead>
<tr>
<th>I/O CATEGORY: OUT PATIENT</th>
<th>PARENT POINTER: 1312</th>
</tr>
</thead>
<tbody>
<tr>
<td>STATUS FLAG: RESULTED</td>
<td>ENTRY DATE/TIME: JUL 27, 2022@16:58:32</td>
</tr>
<tr>
<td>ASSOCIATED V FILE: V LAB</td>
<td>IEN OF V FILE ENTRY: 4295147</td>
</tr>
<tr>
<td>CLINIC STOP CODE POINTER: LABORATORY SERVICES</td>
<td></td>
</tr>
<tr>
<td>ORDER DATE: JUL 27, 2022@16:58:21</td>
<td>ORDER SEQUENCE NUMBER: 1</td>
</tr>
<tr>
<td>ORDER NUMBER: 1155</td>
<td></td>
</tr>
<tr>
<td>ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR</td>
<td></td>
</tr>
<tr>
<td>ORDERING LOCATION POINTER: LAB HOSPITAL (LOC)</td>
<td></td>
</tr>
<tr>
<td>COLLECTION DATE/TIME: JUL 27, 2022@16:58:21</td>
<td></td>
</tr>
<tr>
<td>ACCESSION NUMBER: HE 22 18</td>
<td>COLLECTION SAMPLE POINTER: BLOOD (EDTA)</td>
</tr>
<tr>
<td>COMPLETE DATE: JUL 27, 2022@17:00:21</td>
<td>LOINC CODE: 787 &lt;- RESULT LOINC</td>
</tr>
<tr>
<td>CODE</td>
<td>RESULT: 91</td>
</tr>
<tr>
<td></td>
<td>UNITS: fL</td>
</tr>
<tr>
<td></td>
<td>SITE/SPECIMEN POINTER: BLOOD</td>
</tr>
<tr>
<td></td>
<td>VERIFIER POINTER: DEMO, TECH</td>
</tr>
<tr>
<td></td>
<td>REFERENCE LOW: 80</td>
</tr>
<tr>
<td></td>
<td>REFERENCE HIGH: 100</td>
</tr>
</tbody>
</table>

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER:

Figure 7-1: IHS Lab Transaction Log List display
8.0 **Modified Routines**
Several routines have been modified in order to prevent errors and/or correct issues.

8.1 **BLRRLEDI**
Reference Lab – Fix Incorrect Patient Name & Chart Number.

8.2 **LR7OF1**
Reference laboratory to retrieve the correct lab order number.

8.3 **BLRSLTL1**
Routine was modified so that the correct variable containing the patient's IEN is used to retrieve the I/O Category.

8.4 **LRORDST**
Routine was modified so that if the BLRLOG variable does not exist no error will occur and the event will be handled in the appropriate manner.

8.5 **LR7OGMP**
Routine was modified so that IHS UCUM file pointer is used appropriately.

8.6 **BLR7OGMP**
Routine modified so that UID is used to retrieve arrival time from the accession file.

8.7 **LRXREF1**
Routine modified so that missing data will be handled appropriately.

8.8 **LRVER, LRVR, and LRVR1**
Routines modified so that fatal error will not occur and messages to the user regarding the issue are appropriate.

8.9 **BLRTN**
Routine modified to use correct accession variable so as to correctly calculate result date/time.
8.10  **LRLL2**
Routine was modified so that, if invoked, it will only display the last four (4) digits of the SSN.

8.11  **LR7OB69**
Routine was modified so that if certain variables do not exist, they will no longer cause errors but will be handled in the appropriate manner.

8.12  **LRLLP5**
Routine was modified so that, if invoked, it will only display the last four (4) digits of the SSN.

8.13  **LRSPRT2**
Routine was modified so that, if invoked, it will only display the last four (4) digits of the SSN.

8.14  **LRVRA**
Routine was modified so that, if invoked, it will only display the last four (4) digits of the SSN.
9.0 REFERRAL PATIENT (#67) File New Cross Reference

A new cross-reference, the "E" Patient File Reference, has been added to the REFERRAL PATIENT (#67) file.

9.1 Data Dictionary Listing

The Data Dictionary listing is:

CROSS REFERENCE: 67^E

1) = S ^LRT("E",$E(X,1,30),DA)=""
2) = K LRT("E",$E(X,1,30),DA)
Glossary

Accession Area
A functional area or department in the laboratory where specific tests are performed.

Accession Number
A unique alpha-numeric (combination of letters and numbers) assigned to an individual patient specimen when it is received in the laboratory.

File
A set of related records or entries treated as a single unit.

FileMan
The database management system for the VA's VistA system and IHS' RPMS system.

HL7
Health Level Seven. An ANSI approved American National Standard for electronic data exchange in health care

ICD
International Classification of Diseases. It is formally known as the International Statistical Classification of Diseases and Related Health Problems, a medical classification list by the World Health Organization (WHO).

IEN
Internal Entry Number. A unique number used to identify an entry within a file.

IHS
Indian Health Service. An Operating Division (OPDIV) within the U.S. Department of Health and Human Services (HHS).

Menu
A list of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection.
MUMPS
MUMPS (Massachusetts General Hospital Utility Multi-Programming System) or alternatively M, is a general-purpose computer programming language that provides ACID (Atomic, Consistent, Isolated, and Durable) transaction processing.

Parameter
A name in a function or subroutine definition that is replaced by, or bound to, the corresponding actual argument when the function or subroutine is called.

RPC
Remote Procedure Call. A client/server system within Department of Veterans Affairs (VA) Veterans Health Information Systems and Technology Architecture (VistA) environment. It establishes a common and consistent foundation for client/server applications to communicate and exchange data with M Servers.

RPMS
Resource and Patient Management System. A suite of software applications used at IHS facilities to support administrative, clerical, and clinical functions.

SNOMED
Systematized Nomenclature of Medicine. A systematic, computer-processable collection of medical terms, in human and veterinary medicine, to provide codes, terms, synonyms and definitions which cover anatomy, diseases, findings, procedures, microorganisms, substances, etc.

TaskMan
A Kernel sub module that allows tasks (e.g., VA FileMan prints and sorts) to run in the background.

VA
Veteran's Administration. United States Department of Veterans Affairs

VistA
The Veterans Health Information Systems and Technology Architecture. An enterprise-wide information system built around an Electronic Health Record (EHR), used throughout the VA medical system.
## Acronym List

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<th>Acronym</th>
<th>Term Meaning</th>
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<tr>
<td>CPT</td>
<td>Current Procedural Terminology</td>
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<td>EHR</td>
<td>Electronic Health Record</td>
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<td>Indian Health Service</td>
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<td>PCC</td>
<td>Patient Care Component</td>
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<tr>
<td>POC</td>
<td>Point of Care</td>
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<td>RPMS</td>
<td>Resource and Patient Management System</td>
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Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

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